The Faculty of physics offers a part-time Research position starting October 1, 2017 (E13 TV-L, non-permanent position)

Your Tasks
In the present MeerKAT project technological innovations and analysis methods will be developed to improve the data analysis of pulsar surveys in particular. Your task will specifically be to research and evaluate search methods based on artificial intelligence (AI) and to put them into practice to enhance the discovery potential of this new telescope – and future more sensitive telescopes following it.

In detail this means:
- Development of AI algorithms and quantitative evaluation of these (50 %)
- Pulsar search and follow-up timing (40 %)
- Observation of pulsars (10 %)

Your Profile
We expect
- a Master's degree or a comparable academic degree in physics, engineering or ICT
- a fluent knowledge of English (at least comparable to level B2)
- willingness to travel to collaborators for observations (if needed) and to selected relevant conferences
- presentation skills
- team-oriented working

Preferable qualifications
- (radio) astronomy experience / expertise
- programming expertise (C/C++, Python)
- expertise in artificial intelligence
- experience with pulsar astronomy
- knowledge of LaTeX
- knowledge of Unix/Linux

Our Offer
Salary will be paid according to Remuneration level 13 of the Wage Agreement for Public Service in the Federal States (TV-L). As stipulated in § 2 (1) paragraph 1 of the WissZeitVG (fixed-term employment), the position is limited to a period of 3 years. In accordance with the provisions of the WissZeitVG and the Agreement on Satisfactory Conditions of Employment, the length of contract may differ in individual cases. The employment is designed to encourage further academic qualification. Obtaining a PhD degree is strongly supported. The position is advertised as a 75 % part-time job. In individual cases, this percentage may be reduced on request, as long as this does not conflict with official needs.

Bielefeld University is particularly committed to the career development of its employees. It offers attractive internal and external training and further training programmes. Employees have the opportunity to use a variety of health, counselling, and prevention programmes. Bielefeld University places great importance on a work–family balance for all its employees.

Application Procedure
For full consideration, your application and three recommendation letters should be send via either post or email to reder@physik.uni-bielefeld.de by the 27th of July 2017. Please mark your application with the identification code: wiss17168. Please do not use application portfolios and send only photocopies of original documents because all application materials will be destroyed at the end of the selection procedure. Further information on Bielefeld University can be found on our homepage at www.uni-bielefeld.de.

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Bielefeld University has received a number of awards for its achievements in the provision of equal opportunity and has been recognized as a family-friendly university. The University welcomes applications from women. This is particularly true with regard both to academic and technical posts as well as positions in Information Technology and Trades and Craft. Applications are handled according to the provisions of the state equal opportunity statutes. Applications from suitably qualified handicapped and severely handicapped persons are explicitly encouraged.